L 05648-67 EWT(m)/EWP(j) IJP(c) RM

ACC NR: AP6026759 (A) SOURCE CODE: UR/0138/66/000/005/0003/0004

AUTHOR: Gostev, M. M.; Bryantsev, V. V.; Kovrizhko, L. F.; Sotnikov, I. F.; Kerbanova, [illegible] S. L.; Shestakova, O. S. 36 B

ORG: Voronezh Synthetic Rubber Plant (Voronezhskiy zavod sinteticheskogo kauchuka); Voronezh Tire Plant (Voronezhskiy shinnyy zavod)

TITLE: Oil-extended stereoregular cis-1,4-butadiene rubber 15

SOURCE: Kauchuk i rezina, no. 5, 1966, 3-4

TOPIC TAGS: polybutadiene, filler, plasticizer, vulcanization

ABSTRACT: The conditions of preparation of oil-extended cis-1,4-polybutadiene and the relationship between the methods of extending the rubber and the properties of the rubber mix and vulcanizates were studied. Aromatic PN-6 and tall oil were used as plasticizers and fillers. The properties of the oil-extended rubbers were studied in a special tread mix of the composition (in pts. by wt.): cis-1,4-polybutadiene 100; sulfur 1.6; Santocure 0.9; zinc oxide 3.0; product 4010NA 0.5; Antilux 1.0; KhAF-type carbon black (Vulcan 3) 60.0; oil 13.0. The workability of the mixes was determined from their millability. The tread mixes were vulcanized at 143°C. Rubbers obtained by introducing the oil at the solution stage displayed a better workability than those prepared by adding the oil in the mixer; their tensile strength and resistance to crack propagation were also higher. It is concluded that the good workability of oil-extend-

Card 1/2 UDC: 678.762.2(+665.583).004.12

L 05648-67

ACC NR: AP6026759

ed rubbers permits the preparation of tread mixes from 100% cis-1,4-polybutadiene. Orig. art. has: 1 table.

SUB CODE: 11/ SUBM DATE: 06Nov65/ ORIG REF: 002/ OTH REF: 010

Card 2/2 egh

L 46293-66 EWP(j)/EWT(m)/EWP(t)/ETI IJP(c) RM/JWD/JD

ACC NR: AR6016971 (A) SOURCE CODE: UR/0081/65/000/024/S077/S077

AUTHOR: Gostev, M. M.; Artemov, V. M.; Shatalov, V. P.; Pasynkov, N. V.

TITLE: Stabilizing aqueous dispersions of carbon black with tallow oil soap, and properties of carbon black-oil filled butadiene styrene rubbers based thereon

SOURCE: Ref. zh. Khimiya, Abs. 24S546

REF SOURCE: Tr. Labor. khimii vysokomolekul. soyedineniy. Voronezhsk. un-t, vyp. 3, 1964, 181-185

TOPIC TAGS: butadiene styrene rubber, carbon black, filler, chemical dispersion

ABSTRACT: Aqueous dispersions of carbon black stabilized with the K-soap of tallow oil (I) blend well with SKS-30 ARK latex, oil emulsions and their mixtures. Mixtures of carbon black-oil filled rubbers obtained by coagulating mixtures consisting of latex, PN-6 oil emulsions (17.6 weight/parts of oil on the polymer), aqueous dispersions of carbon black NAF stabilized with I (50 parts by weight of carbon black on oil filled rubber), have better properties in comparison to carbon black-oil filled rubber in which the carbon black is added on the rolls. D. Krasteleva. [Translation of abstract].

SUB CODE: 11,07

Card

ACC NR: AR6016973 (A) SOURCE CODE: UR/0081/65/000/024/S078/S079

AUTHOR: Gostev, M. M.; Shatalov, V. P.; Smitskaya, Z. F.

TITLE: Preparation and properties of butadiene styrene rubber filled with aluminum oxide

SOURCE: Ref. zh. Khimiya, Abs. 24S549

REF SOURCE: Tr. Labor. khimii vysokomolekul. soyedineniy. Voronezhsk. un-t, vyp. 3, 1964, 196-199

TOPIC TAGS: butadiene styrene rubber, filler, aluminum oxide, chemical dispersion, surface active agent, tensile strength, vulcanization

ABSTRACT: 15% aqueous dispersions of Al_2O_3 were prepared with and without the use of surface active agents: K-soaps of hydrated, disproportionated and natural rosin, disperser NF, Nekal, OP-10. The dispersions were mixed with butadiene styrene latex and PN-6 oil. The use of surface active agents improves the dispersion of Al_2O_3 in the rubber, at the same time increasing the strength of the vulcanizates. Introduction of Al_2O_3 into the latex eliminates the difficulties arising in mixing it with rubber on the rolls. I. Ayzinson. [Translation of abstract].

SUB CODE: 11,07,20

Card 1/1

L 12889-63 EPF(c)/EWP(j)/EWT(m)/BDS ASD/AFFTC Pr-4/Pc-4 RM/WW

ACCESSION NR: AP3001425 S/0138/63/000/004/0001/0005

AUTHOR: Shatalov, V. P.; Gostev, M. M.; Kry*lova, I. A.; Artemov, V. M.; Shastakova, O. G.; Korbanova, Z. N.; Slukin, A. D.; Sotnikov, I. F.; Torbinskiy, A. N.

TITLE: Low-temperature polymerized butadiene-styrene rubber with a carbon black-oil filler

SOURCE: Kauchuk i rezina, no. 4, 1963, 1-5

TOPIC TAGS: polymerization, carbon black filler, oil filler, butadiene rubber, styrene rubber

ABSTRACT: Studies were conducted on the preparation of stable dispersions of various types of carbon black, with and without surface-active substances. The latter included potassium rosinate, Leukanol, and ammonium caseinate. The dispersions were prepared in ball mills, in jet mills, and by means of a vibrator. The kinetic and aggregate stability of the dispersions were determined. Potassium rosinate and Leukanol produced dispersions which did not separate for several days. The oil emulsion was prepared with the aid of stearic acid and triethanolamine. The carbon black dispersion was mixed with the latex of butadiene-styrene rubber

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L 12889-63
ACCESSION NR: AP3001425

and into it was introduced the oil emulsion. The coagulation of this mass was best achieved by pouring it into a 9% solution of sodium chloride containing 7% sulfuric acid at 40C. It was found that the introduction of carbon black into the latex previous to coagulation had a favorable effect on the technological properties of the vulcanizates and permitted the processing of rubbers with a higher molecular weight. The KhAF brand of carbon black and the use of potassium rosinate as emulsifier produced vulcanized rubbers of superior strength and abrasive properties, with a higher modulus of elasticity and with a better adhesion to the cord. Pasy"nkov, N. V., Bondaryev, A. Ye., and Gergasevich, T. V. participated in the work. Orig. art. has: 3 tables.

ASSOCIATION: Voronezhskiy zavod sinteticheskogo kauchuka i Voronezhskiy shinny"y zavod (Voronezh Synthetic Rubber Plant and Voronezh Tire Plant)

SUBMITTED: 00 DATE ACQ: 30May63 ENCL: 00

SUB CODE: 00 NO REF SOV: 002 OTHER: 002

Card 2/2

L 1001-65 EWT(m)/EPF(c)/EWP(j) Pc-4/Pr-4 RM

ACCESSION NR: AR5005649 S/0081/64/000/022/S064/S064

SOURCE: Ref. zh. Khimiya, Abs. 22S458

AUTHOR: Shatalov, V.P.; Gostev, M.M.; Bondarev, A.Ye.; Pasynkov, N.V.

TITLE: Alumina-filled rubber prepared by low-temperature polymerization

CITED SOURCE: Tr. Labor. khimii vysokomolekul. soyedineniy. Voronezhsk. un-t, [illegible], 1963, 99 102

TOPIC TAGS: synthetic rubber, low temperature polymerization, rubber filler, alumina filler, Gamma alumina, microcrystalline alumina, rubber plasticity, rubber strength, [illegible] wear, carbon black/SKS-30 rubber, HAF carbon black

TRANSLATION: A sample of Al_2O_3 containing 94-99% of the γ-form was obtained [illegible] $Al_2(SO_4)_3 \cdot 18H_2O$ in an electric furnace at 900-1100C with a gradual [illegible] temperature. The grain size of the microcrystalline aggregates of Al_2O_3 [illegible] the index of refraction was 1.[illegible] [illegible] powder was 12-13 g/100 cc. The adsorption [illegible] of this [illegible] main [illegible] of silica gel. The absorption of moisture during storage for

Card 1/2

L 41001-65

ACCESSION NR: AR5005649

2

50 days in air was ≤ 3-5%. This γ-Al_2O_3 was added on the rollers and into the latex of [illegible] rubber. The plasticity of SKS [illegible]

[illegible] the residual elongation and a lower [illegible]
[illegible] was equal to that of rubber with [illegible] less than that with
[illegible]
[illegible] practically the same. [illegible]
[illegible] SKS [illegible]

SUB CODE: MT

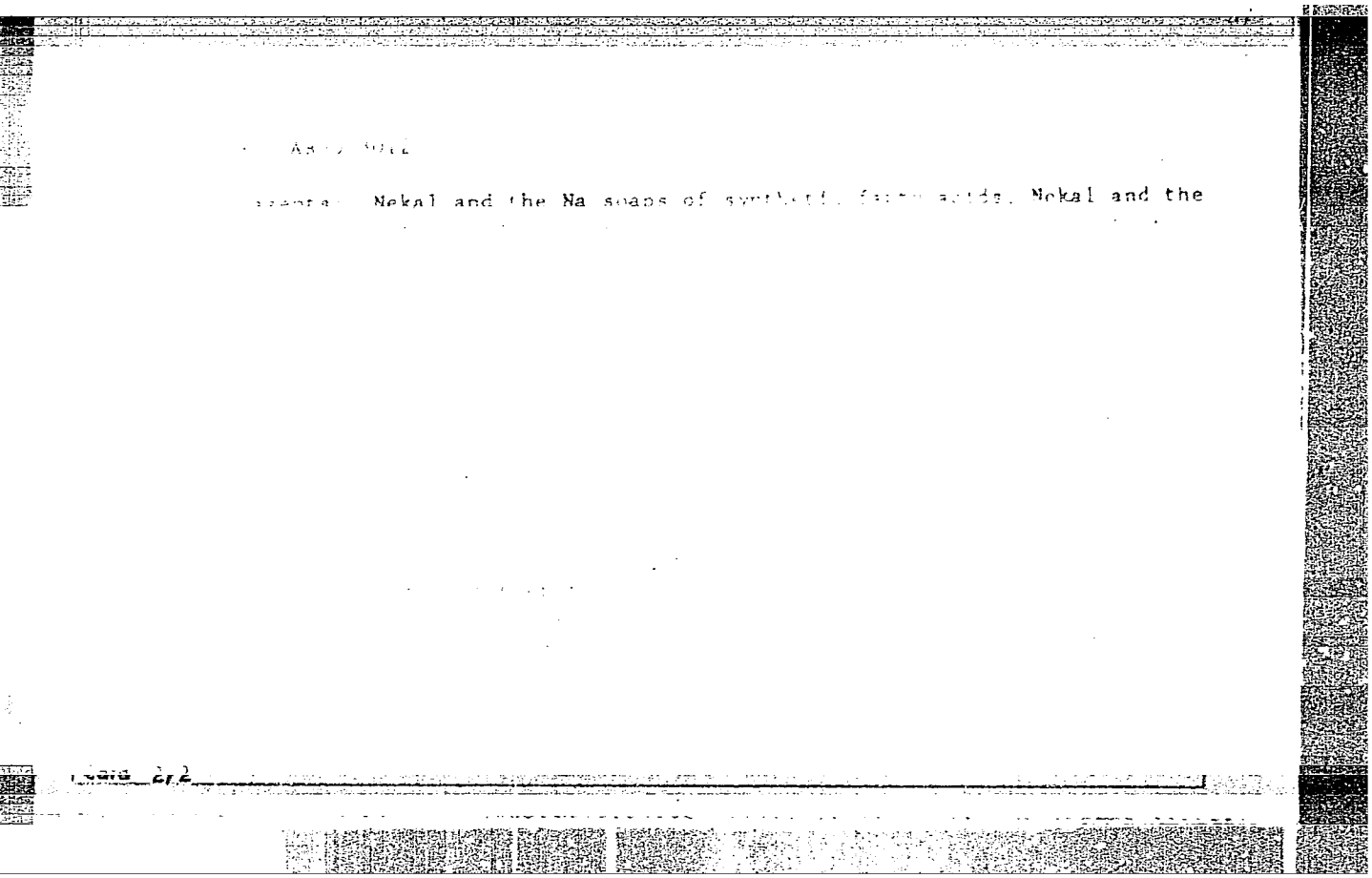
Card 2/2

zh. Khimiya, Abs. 20S511

Kretinin, S. A., Shatalov, V. P.,

Tr. Labor. khimii vysokomolekul. soyedineniy. Voronezhsk. un-t,

synthetic rubber, butadiene rubber, styrene rubber, carbon black fil-



Nekal and the Na soaps of

L 40962-66 EWT(m)/EWP(j) IJP(c) RM/JWD

ACC NR: AR6016972 (A) SOURCE CODE: UR/0081/65/000/024/S077/S078

AUTHOR: Mikhant'yev, B. I.; Gostev, M. M.; Kretinin, S. A.

TITLE: Carbon black-oil filled butadiene styrene rubber of low temperature polymerization obtained in a system with a Trilon Rongalite activating group

SOURCE: Ref. zh. Khimiya, Abs. 24S547

REF SOURCE: Tr. Labor. khimii vysokomolekul. soyedineniy. Voronezhsk. un-t, vyp. 3, 1964, 186-190

TOPIC TAGS: butadiene styrene rubber, filler, carbon black, polymerization catalyst, elasticity, tensile strength

ABSTRACT: The possibility of using channel and gas furnace blacks in reinforcement in SKS-30 ARK latex prepared with the Trilon Rongalite activating group was investigated. The carbon blacks were introduced into the latex as 20% dispersions stabilized with K-soaps of hydrated or disproportionated rosin. The following proportions of stabilizer were necessary to obtain stabilized dispersions: for channel black 4-5 parts by weight, for furnace black 3.5 parts by weight, for their mixtures (1:1) 5-6 parts by weight. Introduction of both carbon blacks and their

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L 40962-66

ACC NR: AR6016972

mixtures to the latex gives vulcanizates with lower modulus and greater elasticity. The strength of vulcanizates with furnace black is higher and with channel black it is lower than when the carbon black is added on the rolls. M. Ayzinson. [Translation of abstract].

SUB CODE: 07, 11, 20

Card 2/2 mlp

L 40297-66 EWT(m)/EWP(j) IJP(c) JWD/RM

ACC NR: AR6014589 (A) SOURCE CODE: UR/0081/65/000/021/S091/S091

54
B

AUTHORS: Gostev, M. M.; Artemov, V. M.; Kovrizhko, L. F.

TITLE: Development of a method for the preparation of petroleum-black filled stereospecific cis-1,4-polybutadiene rubber. 15 Report 1. Stabilization of the hydrocarbon dispersion of carbon black 15

SOURCE: Ref. zh. Khimiya, Abs. 21S566

REF SOURCE: Yt. Labor. khimii vysokomolekul. soyedineniy. Voronezhsk. un-t, vyp. 3, 1964, 209-212

TOPIC TAGS: rubber chemical, chemical dispersion, oil, stabilizer, carbon black, synthetic rubber / HAF carbon black, PN-6 oil, OP-10 stabilizer

ABSTRACT: Conditions for the preparation of stable dispersions (D) of carbon black (type HAF) in benzene, p-xylene, ethylbenzene, isopropylbenzene, cyclohexane, and "bentol" (mixture of 30% benzene, 66% toluene, and 4% ethylbenzene) were studied. Resin and its soaps, fatty acids, OP-10, cis-1,4-polybutadiene (I), drying oil, talloil (TM), and oil PN-6 were employed as stabilizers for D. System of 20 parts by weight of TM, 10 of resin soap, 30 of I, and 15 of drying oil (calculated per 100 parts by weight of carbon black) yielded a kinetically and aggregatively stable, mobile hydrocarbon D of carbon black which does not separate within 24 hours. With increased concentration of carbon black, cross-linking of D is increased. Consider-

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L 40297-66

ACC NR: AR6014589

able increase in viscosity of D results from a small increase in concentration. Mechanisms of D stabilization with TM and resin soaps are the same, consisting of formation of an adsorption layer of the stabilizer on the surface of the carbon black particle. Stabilization with I consists of preventing the sedimentation of carbon black particles along with long polymeric chains of rubber. F. Kantor [Translation of abstract]

SUB CODE: 11,07

Card 2/2 MLP

KRYLOVA, I.A.; GOSTEV, M.M.; KOVRIZHKO, L.F.; ZUBOV, P.I.; POSPELOVA, K.A.; PASYNKOV, N.V.; SOTNIKOV, I.F.

Effect of surface-active agents on the strength characteristics of the vulcanizates of carbon black extended SKA-30APK rubber. Kauch. i rez. 24 no.12:13-14 '65. (MIRA 18:12)

1. Institut fizicheskoy khimii AN SSSR i Voronezhskiy zavod sinteticheskogo kauchuka im. S.M. Kirova.

GOSTEV, M. P.
USSR/Chemistry

Card 1/1

Authors : Shorygin, P. P., and Gostev, M. P.

Title : Letters to the Editorial Office. Spectroscopic Analysis of Products, Obtained from Chlorination of Pentachlorphenol.

Periodical : Zhur. Fiz. Khim. Vol. 28, Ed. 4, 762-764, Apr 1954

Abstract : Brief comments on letters submitted to the editorial office, concerning the spectroscopic analysis of products derived from the chlorination of pentachlorophenol. Three references; graphs.

Institution : L. Ya. Karpov' Physico-Chemical Institute, Moscow.

Submitted : January 9, 1954

1. GOSTEV, P. I. and SHAMOLIN, I. S. and RUDSON, F. T.

2. USSR (600)

4. Paper-Making Machinery

7. Device for feeding pulp onto the wire. Bum.prom. 27 no. 5, 1952.

9. Monthly List of Russian Accessions, Library of Congress, February 1953, Unclassified.

GOSTEV, P.I., inzhener, laureat Stalinskoy premii.

Rough cleaning of waste paper and rag stock by vibration knotters. (MIRA 8:4)
Bum.prom. 30 no.3:19-20 Mr '55.
(Papermaking machinery) (Woodpulp)

GOSTEV, P.I.

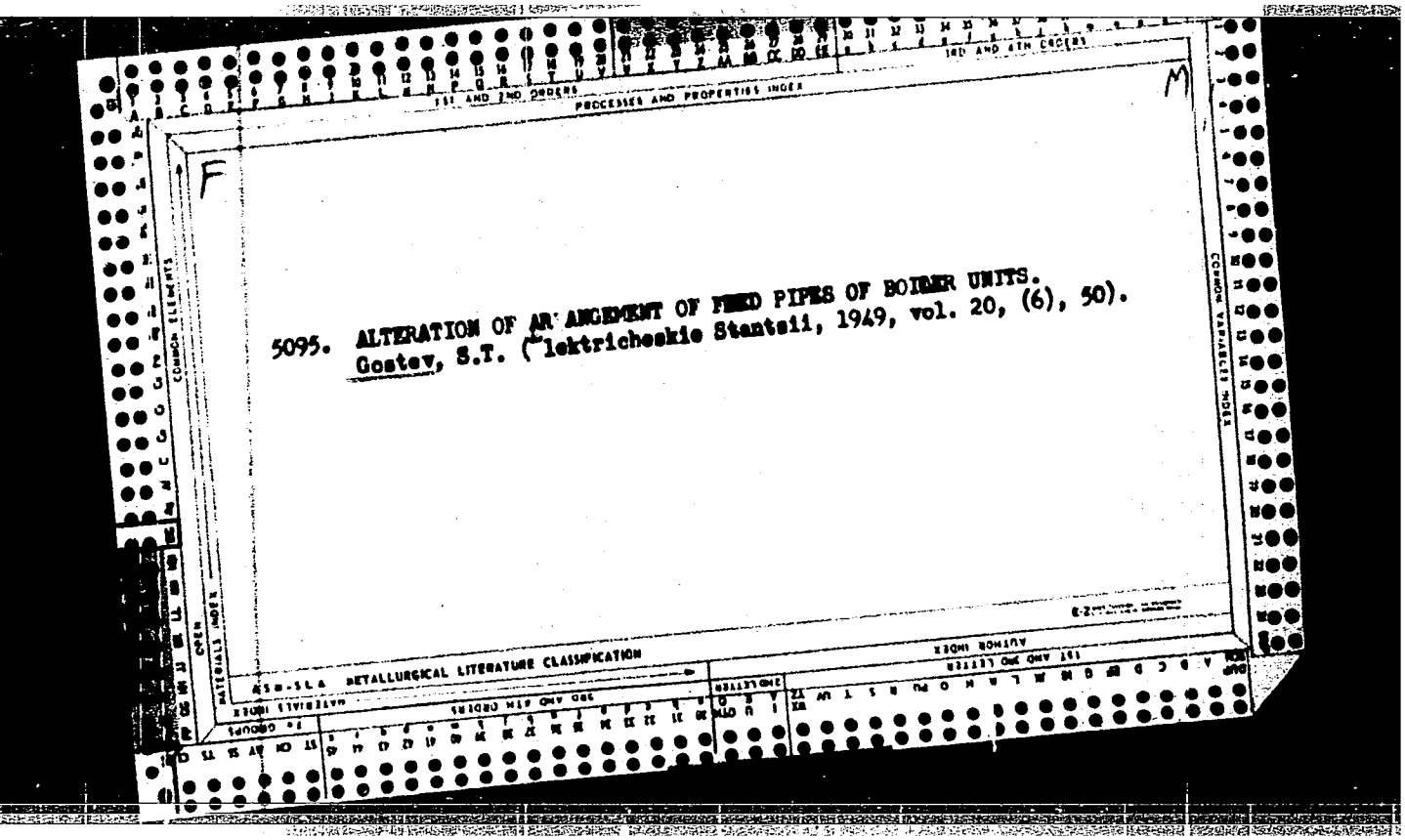
Technological and economic effectiveness of the modernization and reconstruction of paperboard- and papermaking machines. Bumagodel.-mash. no.9:146-154 '61. (MIRA 15:1)
(Papermaking machinery)

ALYAKRINSKIY, V.N.; GOSTEV, P.I.

Practice of the Smolensk State Testing Laboratory in controlling the manufacture of instruments. Izm. tekh. no.9:59-61 S '63. (MIRA 17:1)

ILLARIONOVA, L.F., inzh.; ANASHKIN, P.P., inzh.; ZABUGIN, P.F., inzh.; GOSTEV, R.I., inzh.

Mesh-reinforced channel roofs in construction for the transportation industry. Transp. stroi. 12 no.5:32-35 My '62. (MIRA 15:6)
(Roofing, Concrete)



5095. ALTERATION OF AR[illegible]ANGEMENT OF FEED PIPES OF BOILER UNITS.
Gostev, S.T. (Elektricheskie Stantsii, 1949, vol. 20, (6), 50).

GOSTEV, S. T.

USSR/Fuel - Coal Jul 50
Power Stations

"Use of Scraper-Made Coal Heaps in the Electric Power Stations of Western Siberia," S. T. Gostev, Engr

"Elek Stants" No 7, pp 16-18

It has been found semicircular scraper-made coal heaps can only be used efficiently in winter conditions of Western Siberia if their storage is very carefully carried out. Recommends layer packing for heaps over 2 m high to reduce volume of coal liable to freeze. Heap should be

162T37

USSR/Fuel - Coal (Contd) Jul 50

built up as compact mass to greatest possible height to insure easy transportability. Suggests use of explosive materials in form of small charges once or twice each winter to break up frozen masses of coal on heap.

162T37

GOSTEV, V.A.; IBRAGIMOV, L.A.

Economic effectiveness of the use of tractors in the transportation of farm loads. Trakt. i sel'khozmash. no.4:33-34 Ap '65. (MIRA 18:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy sel'skokhozyaystvennogo mashinostroyeniya.

S/262/62/000/007/014/016
I007/1207

AUTHOR: Beniovich, V. S. and Gostev, V. B.

TITLE: Investigations on the geometry of the rotor and working chamber of rotary-piston engines

PERIODICAL: Referativnyy zhurnal, otdel'nyy vypusk. 42. Silovyye ustanovki, no. 7, 1962, 81, abstract 42.7.446. "Traktory i sel'khozmashing", no. 7, 1961, 3-5

TEXT: Relationships are presented for the solution of problems concerning the geometry of the rotor and working camber of rotary-piston engines. There are 4 figures and 4 references.

[Abstracter's note: Complete translation.]

Card 1/1

BENIOVICH, V.S., kand.tekhn.nauk; GOSTEV, V.B., inzh.

Calculating the kinematic velocity and swept volume of rotary reciprocating engines. Trakt. i sel'khozmash. 31 no.11:11-13 N '61. (MIRA 14:12)

(Gas and oil engines)

L 19356-63 EWT(m)/BDS AFFTC/ASD/APGC/ESD

ACCESSION NR: AR3005031 S/0273/63/000/006/0050/0050

SOURCE: RZh. Dvigateli vnutrennego sgoraniya, Abs. 6.39.405

AUTHOR: Boniovich, B. S.; Gostev, V. B.

TITLE: Determination of rotary piston engine parameters

CITED SOURCE: Tr. Gos. soyuzn. n.-i. trakt. in-t. vy*p. 139, 1961, 41 str

TOPIC TAGS: rotary piston

TRANSLATION: The authors describe in general form the results of calculations of a rotary engine carried out in the prospective engine laboratory of the State All-Union Research Institute of Tractors.

DATE ACQ: 01Jul63 SUB CODE: MD ENCL: 00

Card 1/1

BENIOVICH, V.S., kand.tekhn.nauk; GOSTEV, V.B., inzh.

Calculation of the machining process of the chamber of a rotary piston engine. Trakt.i sel'khozmash. 32 no.9:14-15 S '62. (MIRA 15:12)

1. Gosudarstvennyy soyuznyy nauchno-issledovatel'skiy traktornyy institut.

(Gas and oil engines)

BENIOVICH, V.S., kand. tekhn. nauk; GOSTEV, V.B., inzh.

Calculations for the sections of gas distribution openings of a rotary-piston engine. Trakt. i sel'khozmash. no.9:8-10 S '64. (MIRA 17:11)

1. Gosudarstvennyy soyuznyy nauchno-issledovatel'skiy traktornyy institut.

L 06391-67 EWT(1)
ACC NR: AP6010288 SOURCE CODE: UR/0103/66/000/003/0136/0141

40
B

AUTHOR: Gostev, V. I. (Kiev)

ORG: none

TITLE: Determination of the transfer function of sampled data systems with first-order components and periodic and stepped variation of the parameters

SOURCE: Avtomatika i telemekhanika, no. 3, 1966, 136-141

TOPIC TAGS: sampled data control system, pulse modulation, data sampling

ABSTRACT: A specific case of determination of the transfer function in first-order sampled data systems was studied. The given system includes a shaping component which generates random pulses and a continuous part. The continuous part includes first-order components with periodic and stepped variation of the parameters and components with constant parameters. Using a conventional Laplace transform, and subsequently a discrete Laplace transform (D-transform), a formula defining the transfer function of such systems is derived. The formula reduces the system to a first-order open-loop pulse-modulation system with equivalent constant parameters. Orig. art. has: 33 formulas.

SUB CODE: 09/12/ SUBM DATE: 190ct65/ ORIG REF: 005

UDC: 62-504

Card 1/1

GUR'YEV, S.V., kand.tekhn.nauk; GOSTEV, V.I., inzh.; KUREPIN, M.N., kand.tekhn.nauk, retsenzent; DORFMAN, L.S., otv.red.; ORLOV, Ye.I., red.izd-va; ANDREYEV, G.G., tekhn.red.

[Organization and operation of railroad transportation in open-pit mining] Organizatsiia i ekspluatatsiia kar'ernogo zheleznodorozhnogo transporta. Moskva, Ugletekhizdat, 1951. 239 p. (MIRA 13:3)

(Mine railroads) (Strip mining)

POLUNOV, Leon Solomonovich; GOSTEV, Vadim Ivanovich; IOANNESYANTS, M.A., inzh., retsenzent; KUZNETSOV, N.S., inzh., retsenzent; YAKOVLEVA, V.I., red.izd-va; SOROKINA, G., tekhn.red.

[Design of industrial laboratories and offices of the department of technical control; brief manual] Proektirovanie zavodskikh laboratorii i sluzhb otdela tekhnicheskogo kontrolia; kratkoe spravochnoe posobie. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1960. 154 p. (MIRA 13:4)
(Engineering laboratories)

GOSTEV, V.I.

A.C. integrator with two semiconductor keys. Avtom. i prib. no.4:60-62 O-D '63. (MIRA 16:12)

GOSTEV, V. I.

"Automatic Control of Mass-Produced Automobile Parts,"
Moskva Gos. nauchno-tekhn. izd-vo nashinostroit. lit-ry, 1947

GOSTEV, V. I.

Mar/Apr 1948

USSR/Electronics
Measuring Instruments
Synchronous Machines

"Application of Hooke's Coupling in Automatic Measuring Devices," V. I. Gostev, Moscow Automobile Works imeni Stalin, 7 pp

"Avtomat i Telemekh" Vol IX, No 2

Describes the principal systems of measuring instruments which utilize the electrical contact principle of operation. Use of Hooke's coupling permitted complex measuring operations with great reliability. Describes measurements on the perpendicular, parallel, and eccentric nature of surfaces when using Cardan-type attachments. Submitted 4 Nov 1947. 64T52

GOSTEV, V. I.

Tekhnicheskii kontrol' i bor'ba s brakom v mashinostroenii. Moskva, Mashgiz, 1948. 71 p. illus.

Excerpts from Soviet laws on prevention of waste: p. 67-(70)

Bibliography: p. (66)

Technical inspection and prevention of waste in machine building.

DLC: TJ148.G63

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953.

GOSTEV, V.I.; SYROYEGIN, A.A.

Method of evaluating regularly the precision of machine tools. Avt.trakt. prom. no.9:5-10 S '53. (MLRA 6:9)

(Machine tools)

1. Moskovskiy avtozavod im. Stalina.

GOSTEV, V.I., inzhener.

Quality control in machine building and some problems of standardization. Standartizatsiia no.4:11-16 Jl-Ag '54. (MLRA 8:2)

1. Moskovskiy avtomobil'nyy zavod im. Stalina.
(Quality control)(Standards, Engineering)

GOSTEV, V.I.

PHASE I TREASURE ISLAND BIBLIOGRAPHICAL REPORT AID 767 - I

Call No.: AF666972

BOOK

Authors: GOSTEV, V. I. and A. V. BELOUSOV (See "Facilities")

Full Title: QUALITY CONTROL IN MACHINE SHOPS

Transliterated Title: Kontrol' kachestva produktsii v mashinostroyenii

PUBLISHING DATA

Originating Agency: None

Publishing House: State Scientific and Technical Publishing House of Literature on Machine Building and Shipbuilding (MASHGIZ).

Date: 1955 No. pp.: 640 No. of copies: 6,000

Editorial Staff

Editors-in-Chiefs: Gostev, V. I. and Belousov, A. V.

PURPOSE: This book is written specifically for workers and inspectors of the Department of Technical Control (OTK), machine-shop foremen and supervisors. The authors, all experts in their respective fields, present the most important phases of work in technical control as practiced in the leading industrial plants or developed by the latest scientific research.

TEXT DATA

Coverage: This book presents the organization and work methods of the Departments of Technical Control (OTK), the Bureaus of Methods for Technical Control (BMTK), Sections of Technical Control (STK) and other subdivisions in minute detail. It describes the instruments and tools of inspection and their handling, and

1/3

Kontrol' kachestva produktsii v mashinostroyenii AID 767 - I

gives specific information on inspection and control of various finished parts, units and completed mechanisms. The first part of the book discusses the fundamental principles and problems of the control units, their organization and their relation with the shop technicians. The technique of inspection and the importance of adherance to standards and measuring units are stressed. The second part of the book is devoted to the means, instruments and tools for control and inspection. The basic characteristics, application, and the calculations involved are described. The third part of the book contains information on specific technical inspections as they are carried in various shops. It describes the application of chemical analysis in the inspection of metal parts, testing with Brinel and/or Rockwell machines, the use of the Erichsen and the TsNIITMASh (Central Scientific and Research Institute of Technology and Machine Building) machines. Inspections conducted in foundries, in hot and cold stamping shops, in tool and machine assembly shops are discussed. The inspection of heat-treated parts, coils and springs, of finished parts covered with chemicals and/or metal, of rivetted units, and the final inspection and test of the assembled machines are also given. Numerous pictures, tables, drawings, charts and diagrams illustrate the text.

AID 767 - I

Kontrol' kachestva produktsii v mashinostroyenii

No. of References: 76 Russian; 1935-1954.
Facilities: The list of authors: V. I. Gostev, A. V. Belousov, V. A. Polovnev, P. N. Pronin, E. M. Levenson, P. E. D'yachenko, A. D. Asscnov, D. S. Abramson, R. R. Gessel'son, V. K. Teplyakov, M. S. Frenkin, S. N. Zakharov, A. L. Khudoyarov, M. I. Vesnik, G. S. Leonov, V. M. Shestopal, M. Ya. Yakhkind, G. N. Rovinskiy, I. A. Grigor'yev, N. I. Petrov.

3/3

GOSTEV, V.I.; SYROYEGIN, A.A., kandidat tekhnicheskikh nauk.

Efficient system of setting up machine tools. Avt.i trakt.prom. no.12:20-26 D '55. (MLRA 9:3)

1. Moskovskiy avtozavod imeni Stalina.
(Machine tools)

NOVIKOV, Aleksandr Stepanovich; [redacted], inzhener, retsenzent; KARASEV, N.P., inzhener, retsnezent; DLIN, A.M., redaktor; POPOLOV, Ye.N., redaktor izdatel'stva; MATVEYEVA, Ye.N., tekhnicheskiy redaktor; UVAROVA, A.F., tekhnicheskiy redaktor

[Organization and methods for controlling production quality in machine building] Organizatsiia i metody kontrolia kachestva produktsii v mashinostroenii. Pod red. A.M.Dlina. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1956. 165 p. (MLRA 9:12)
(Machinery industry--Quality control)

GOSTEV, V.I.

Ways of lowering work expenditure in engineering control.
Avt. i trakt. prom. no.3:1-6 Mr '56. (MLRA 9-7)

1.Moskovskiy avtozavod imeni Stalina.
(Engineering--Management) (Automobile industry)

GOSTEV, V.I.; SYROYEGIN, A.A.

Calculating the limits of linear dimension chains by the method of theoretical probability. Avt. i trakt. prom. no.6: 11-22 Je '56. (MLRA 9:9)

1. Moskovskiy avtozavod imeni I.A. Likhacheva.
(Machinery)

GOSTEV, V., inzh.

Wire ropes for excavators. Mast. ugl. 6 no.12:19 D '57.
(MIRA 11:1)

1.Vostochnyy nauchno-issledovatel'skiy institut po bezopasnosti rabot v gornoy promyshlennosti.
(Excavating machinery) (Wire rope)

E5(1) PHASE I BOOK EXPLOITATION SOV/1586

Tekhnologicheskiy spravochnik po kovke i ob"yemnoy shtampovke (Handbook on Open and Closed Die Forging) Moscow, Mashgiz, 1959. 966 p. 15,000 copies printed.

Ed. (Title page): M.V. Storozhev; Ed. (Inside book): S.B. Kirsanova, Engineer; Ed. of Publishing House: B.M. Gliner, Engineer; Tech. Ed.: T. F. Sokolova; Managing Ed. for Information Literature (Mashgiz): V.I. Krylov, Engineer.

PURPOSE: The handbook is intended for engineers and technicians working in forging and die forming shops and in engineering design bureaus. It may also be used by teachers and students of technical schools.

COVERAGE: The handbook contains information on processes of forging and closed die forming as carried out on various kinds of forging and pressing machinery. Information is given on initial stock, making blanks, quality inspection of forgings and their heat treatment, and on engineering characteristics of basic machinery and mechanization equipment, on die making and on technical-economic indexes and engineering standardization. The authors state that problems of manufacture by forging and press forming which have only been discussed up to now in periodicals and special-

SOV/1586

Handbook on Open and Closed Die Forging

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PHASE I BOOK EXPLOITATION SOV/4608

Polunov, Leon Solomonovich, and Vadim Ivanovich Gostev

Proyektirovaniye zavodskikh laboratoriy i sluzhb otdela tekhnicheskogo kontrolya; Kratkoye spravochnoye posobiye (Planning of Plant Laboratories and Services of the Inspection Department; Short Reference Book) Moscow, Mashgiz, 1960. 154 p. Errata slip inserted. 6,000 copies printed.

Reviewers: M.A. Ioannesyants, Engineer, and N.S. Kuznetsov, Engineer; Ed. of Publishing House: V.I. Yakovleva; Managing Ed. for Information Literature: I.M. Monastyrskiy, Engineer; Tech. Ed. G. Sorokina.

PURPOSE: This reference manual is intended for the personnel of design-planning organizations, and for the supervisory personnel of plant inspection departments.

COVERAGE: The manual presents reference material on the composition, basic quantitative data and calculation of equipment for plant and shop laboratories, and includes information on staffing, planning, required materials, equipment, and tools. Methods of inspecting materials and intermediate and finished products based on experience gained by inspection departments in automotive industry are

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also presented. No personalities are mentioned. There are 12 references, all Soviet (including 1 translation from English).

TABLE OF CONTENTS:

PLANNING OF PLANT LABORATORIES. (BY L.S. POLUNOV, ENGINEER)

AVAILABLE: Library of Congress

Card 4/4

AC/wrc/gmp
12-20-60

S/182/60/000/001/008/008
A161/A029

AUTHOR: Gostev, V.I.

TITLE: Forging Shops Must Be Planned With Care to Ensure the Quality of Forgings

PERIODICAL: Kuznechno-shtampovochnoye proizvodstvo, 1960, No. 1, pp. 34 - 38

TEXT: The author points out that shop planning without due care for production quality is not a rare case in the USSR. When a shop is already working it is difficult or impossible to change the situation. The importance of precise technical specification, work organization and inspection is stressed and suggestions are made. It is mentioned that at Avtozavod im. Likhacheva (Automobile Plant im. Likhachev) the quantity of spoiled forgings dropped from 2% to 0.03% after personal markings had been made obligatory on forgings, and fines for rejects became a rule. Material specifications are often the cause of losses. One example was a specification for "40" steel in which the carbon content limit only was indicated. The result was that metallurgic works supplied steel with high content of impurities, and 20% of connecting rods developed cracks in forging and frequently failed despite careful inspection, ruining the entire engine. The

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Forging Shops Must Be Planned With Care to Ensure the Quality of Forgings

problem was solved by using boron steel "40P" (40R) that could be quenched in oil. The production process specification must include proper preheating of the metal for shearing. Alloy steel cut without correct preheating can develop deep cracks in storage after shearing, and the cracks appear later in the stamping shop. Besides, the shear knives can cause too high stresses. It is a rule that the die design must give proper orientation of the fiber in the metal, without intercrossing and interruptions, but the rule is not always being followed, and the result is failure of parts in operation. Heat treatment in forging shops must be on the same level as it is in heat treatment shops after machining, and it is planned at the Automobile Plant im. Likhachev to build experimental furnaces with protective or reducing atmosphere to reduce scale on the surface and eliminate the necessity of scale removing by pickling, shot blasting, etc. It often happens that production engineers select the cheapest ways, as for instance cleaning in drums or in shot blast chambers, and surface faults remain unnoticed on forgings, and several times entire engines were ruined. As soon as pickling was used for connection rod covers, the slightest ruptures from stamping and quenching became visible. A high quantity of machine parts in different machine industry branches is now being

S/182/60/000/001/008/008
A161/A029

Forging Shops Must Be Planned With Care to Ensure the Quality of Forgings

stamped so that 95% of the surface is inside the die, and only little of the surface is machined by cutting, but the cut surface has time to develop corrosion before it reaches the assembly shop. Expensive rust removal is then necessary. It would be proper, therefore, to include painting chambers into the shop plan, as has been done at the "Rostsel'mash" plant. As to work organization, a preparation shift ought to be organized for preparation of dies, and different parts ought not to be mixed on conveyers on the way from trimming presses, for the picking of parts swallows the entire economy brought about by mechanization. The importance of the statistical inspection method is stressed. It is used at the ZIL (Zavod Imeni Likhacheva) and in the forging shop the number of inspectors is 12.5% of the production workers. Comparison is made with the statistical inspection at the U.S. Chevrolet works, with the conclusion that such a number of inspectors is normal and will have to be higher when production will be automated. It is stressed that in other countries statistical inspection is used in mechanical shops, foundries and forging shops, and such a work organization with immediate recording and immediate control measures is the most advanced work method. Equipment for statistical control must be considered in planning boards with

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A161/A029

Forging Shops Must Be Planned With Care to Ensure the Quality of Forgings

transparent shields of plastics for the control curves; light signals at all machines (green and red); push buttons for signal lights.

Card 4/4

BOL'SHOV, M.; GOSTEV, V.; DUVANKOV, G., inzh.; AGAFONOV, I.

Old sicknesses of the new machinery. Okhr. truda i sots. strakh. 4 no.3:42-46 Mr '61. (MIRA 14:3)

1. Tekhnicheskiy inspektor TSentral'nogo komiteta profsoyuza rabochikh i sluzhashchikh sel'skogo khozyaystva i i zagotovok (for Bol'shov). 2. Starshiy tekhnicheskiy inspektor Moskovskogo soveta profsoyuzov(for Gostev). Predsedatel' obshchestvennogo soveta profsoyuzov "Okhrany truda i sotsial'noye strakhovaniya" (for Duvankov). 4. Spetsial'nyy korrespondent zhurnala "Okhrana truda i sotsial'noye strakhovaniye" (for Agafonov).

(Machinery—Design)
(Industrial safety)

BEZHELUKOVA, Ye.F., inzh.; VOROB'YEV, Yu.A., kand. tekhn. nauk; VORONTSOV, L.N., kand. tekhn. nauk; ZYABREVA, N.N., kand. tekhn. nauk; LYANDON, Yu.N., kand. tekhn. nauk; TISHCHENKO, O.F., doktor tekhn. nauk, prof.; FEDOROV, A.D., kand. tekhn. nauk; YAKUSHEV, A.I., doktor tekhn. nauk, prof.; GOSTEV, V.I., inzh., retsenzent; KUBAREV, V.I., inzh., red.; GARANKINA, S.P., red.izd-va; UVAROVA, A.F., tekhn. red.

[Handbook on allowances, fits, and linear measurements for inspectors at machinery plants] Spravochnik kontrolera mashinostroitel'nykh zavodov; po dopuskam, posadkam, i lineinym izmereniiam. Pod red. A.I.IAkusheva. Leningrad, Mashgiz, 1963. 723 p. (MIRA 16:5)
(Production control) (Measuring instruments)
(Interchangeable mechanisms)

GOSTEV, V.I. (Kiyev)

Method for the analysis of compensating RC stages with a vibrator for automatic control systems operating on a carrier frequency. Izv. AN SSSR. Tekh. kib. no.6:78-88 N-D '63. (MIRA 17:4)

GOSTEV, V.I.

Circuits of a.c.differenciators with an electronic key. Avtom. i prib. no. 1:63-64 Ja-Mr '64. (MIRA 17:5)

GOSTEV, V.I.

Wide-band a.c. differentiator. Avt. i prib. no.4:70-73 O-D '64
(MIRA 18:2)

L 25742-65 EWT(d)/EWP(1)/EEN-2 Po-4/Pq-4/Pg-4/Pk-4 IJP(c) BB/GG

ACCESSION NR: AP5002085 S/0146/64/007/006/0036/0042

AUTHOR: Gostev, V. I.

TITLE: A-c integrators with an electronic switch

SOURCE: IUVZ. Priborostroyeniye, v. 7, no. 6, 1964, 36-42

TOPIC TAGS: integrator, ac integrator

ABSTRACT: Two new circuits of a-c integrators with an electronic switch are considered whose AM-envelope characteristics are close to those of a d-c integrating circuit. The circuits are designed (see Enclosure 1) with 6N1P double [illegible] storing capacitors and resistors in the coupling grid [illegible] of the switch [illegible] constant amplitude and frequency [illegible] signal. Formulas for the transfer [illegible] efficient and

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ACCESSION NR: AP5002085

attenuation constant (15, 16, 17) for the above integrators are developed. A few experimental results including output-voltage oscillograms are reported. The integrators are intended for automatic-control systems operating with a carrier frequency. Orig. art. has: 4 figures and 20 formulas.

ASSOCIATION: none

SUBMITTED: 31Jul63 ENCL: 01

SUB CODE: EC NO REF SOV: 000 OTHER: 003

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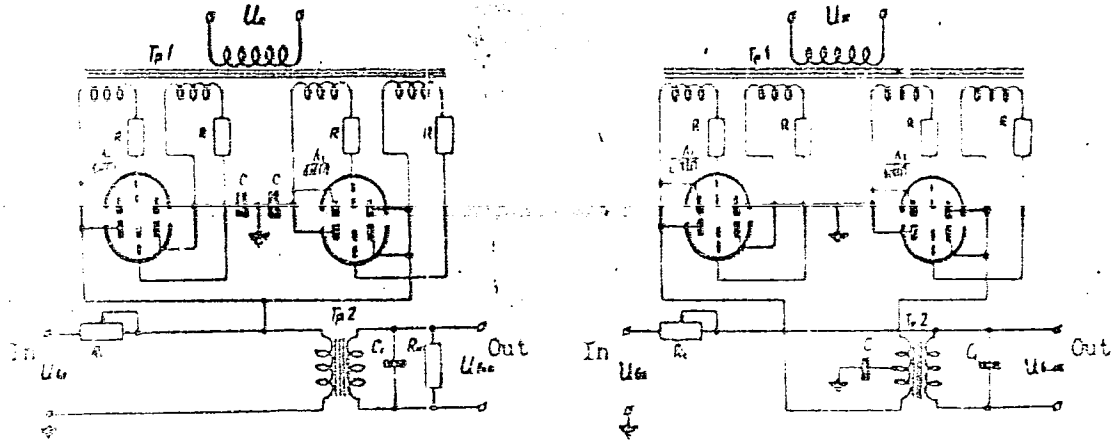
L 25742-65

ACCESSION NR: AP5002085

ENCLOSURE: 1



With 2 storage capacitors With 1 storage capacitor

An a-c integrator with an electronic switch and storage capacitors

Card 3/3

GOSTEV, Vladimir Ivanovich, ad"yunkt

Determination of processes in a linear circuit subject to the action of a train of repeating impulses. Izv. vys. ucheb. zav.; elektromekh. 7 no.8:1014-1016 '64. (MIRA 17:10)

1. Kiyevskoye vyssheye inzhenernoye radiotekhnicheskoye uchilishche.

GOSTEV, Vladimir Ivanovich, ad"yunkt

Analysis of a.c. systems using a discrete Laplace transformation method. Izv.vys.ucheb.zav.; elektromekh. 7 no.10:1165-1173 '64. (MIRA 18:1)

1. Kiyevskoye vysshaye inzhenernoye radiotekhnicheskoye uchilishche voysk protivovozdushnoy oborony.

GOSTEV, V.I. [Hostiev, V.I.] (Kiyev)

Approximate equivalent transfer function of RLC and RC carrier frequency circuits. Avtomatyka 9 no.3:58-60 '64 (MIRA 17:7)

GOSTEV, Vladimir Ivanovich, inzh.; CHINAYEV, P.I., doktor tekhn. nauk, retsenzent

[Compensating four-terminal networks with choppers] Korrektiruiushchie chetyrekhpoliusniki s preryvateliami. Kiev, Tekhnika, 1965. 168 p. (MIRA 18:7)

GOSTEV, V.I.

Statistical control of production quality. Mashinostroitel' no.1:34-37 Ja '65. (MIRA 18:3)

ACCESSION NR: AP3004983

AUTHOR: Goster, V. I.

TITLE: A broad-band alternating current integrator. Class 42, No. 167681

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 2, 1965, 66

TOPIC TAGS: broadband component, phase shift correction

ABSTRACT: This Author Certificate presents a broad-band alternating current

ASSOCIATION: none

SUBMITTED: 15Jul63 ENCL: 00 SUB CODE: EC

NO REF SOV: 000 OTHER: 000

GOSTEV, V.I.

Analysis of automatic control systems with modulator and half-wave demodulator. Izv. vys. ucheb. zav.; radiofiz. 8 no.2: 380-391 '65. (MIRA 18:6)

GOSTEV, Vladimir Ivanovich, ad"yunkt

Integrating devices with operational a.c. based on the deduction principle. Izv.vys.ucheb.zav.; elektromekh. 8 no.3:254-260 '65. (MIRA 18:5)

1. Kiyevskoye vyssheye inzhenernoye radiotekhnicheskoye uchilishche Voysk protivovozdushnoy oborony.

GOSTEV, V.I. (Kiyev)

Analysis of a channel with AM carrier signal. Avtom. i telem. 26 no.6: 1105-1111 Je '65. (MIRA 18:7)

L 24806-66 EWT(d)/EWP(1) IJP(c) BB/GG
ACC NR: AP6010776 SOURCE CODE: UR/0146/66/009/001/0097/0099

AUTHOR: Gostev, V. I.

ORG: Kiev Higher Electronic Engineering Academy (Kiyevskoye vyssheye inzhenernoye radiotekhnicheskoye uchilishche)

TITLE: A simple broad-band ac integrator

SOURCE: IVUZ. Priborostroyeniye, v. 9, no. 1, 1966, 97-99

TOPIC TAGS: digital integrator, automatic control system, phase shifter

ABSTRACT: In a previous article (Gostev, V. I., "AC Integrators with an Electronic Switch", *Izvestiya vuzov SSSR -- "Priborostroyeniye"*, No 6, 1964), the author describes integrators for correction of ac automatic control systems by introducing an integral into the law for variation in the envelope of the AM voltage of the carrier frequency. In this paper the author proposes an ac integrator circuit based on the same principle as the integrators described in the previous work but considerably simplified. This is also a broad-band circuit (insensitive to changes in the carrier frequency) and has equivalent (for the envelope) characteristics close to the standard ac integrating circuit. The circuit consists of two extremely simple half-wave modulators K_1 and K_2 (see figure) which make up a semiconductor switch, two storage capacitors C and a variable resistor R_1. Each modulator connects the corresponding

UDC: 62.502

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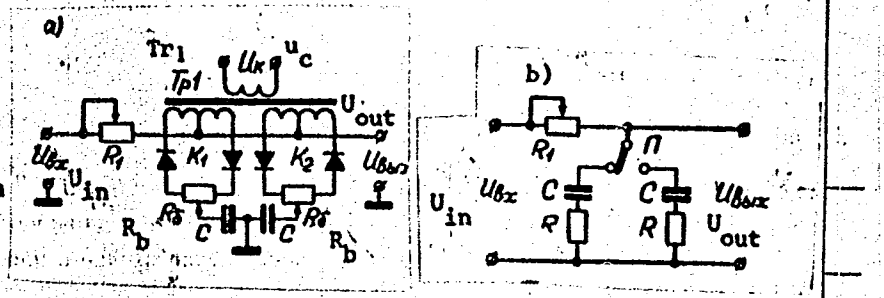
capacitor C through resistor R_1 to the input for a half-period of the commutating voltage u_c (voltage u_c is a sinusoidal voltage of carrier frequency ω_{cf} with a constant amplitude considerably greater than that of the input signal). An AM voltage of frequency ω_{cf} is fed to the integrator input. This voltage either coincides in phase with the commutating voltage or is shifted by 180°. The output voltage from the integrator is ordinarily fed to an ac amplifier with a rather high input impedance. Each half-wave modulator is balanced by a resistor R_b so that the output voltage is 0 when the input voltage is 0. The sliders on potentiometers R_b are set at approximately the midpoint. This integrator circuit may be reduced to a simplified system (see figure, b) in which the switch reed is to the left for one half-period of the input voltage and to the right for the following half-period. Since the resistances of the diodes in the open state and the resistances of the secondary windings of transformer Tr_1 in an actual circuit are small in comparison with resistance R_b, resistances R may be



L 24806-66

ACC NR: AP6010776

considered equal to 0.5 R_b in the simplified circuit. Circuit analysis gives the following practical parameters: R_1--10 KΩ, R_b--2.2 KΩ each, C--30 μf, 160 WVDC, u_o--30 v, load resistance--39 KΩ, amplitude of the signal voltage--0-25% u_o. Orig. art. has: 2 figures. [14]

SUB CODE: 09/3/ SUBM DATE: 01Feb65/ ORIG REF: 001/ OTH REF: 000

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GOSTEV, V.N.

Developing a system of tolerances and fits for cylindrical joints. Trudy LTI no.50:140-159 '59. (MIRA 14:3)
(Tolerance(Engineering))

GOSTEV, V.N.

Using the interchangeability in the automation of production processes in the manufacture of machinery. Trudy LTI no.50:160-176 '59.
(MIRA 14:3)

(Automation)
(Interchangeable mechanisms)

GOSTEV, V.N.; BRAGINSKIY, V.A.; FYN SI-YUN [Fêng Hsi-yung]

Experimental checking of the possibility of extending tolerances.
Trudy LTI no.50:177-186 '59. (MIRA 14:3)
(Tolerance(Engineering))

30(7)
25(6)

S/028/60/000/03/023/029
D041/D006

AUTHORS: Braginskiy, V.A., and Gostev, V.N.

TITLE: A Conference on Problems of Accuracy in Machine Building

PERIODICAL: Standartizatsiya, 1960, Nr 3, pp 53-56 (USSR)

ABSTRACT: Commemorating the 100th anniversary of the birth of Professor Aleksey Dmitriyevich Gattsuk, and the 30th anniversary of the approval of the All-Union system of tolerances and fits, in the development of which Gattsuk played a remarkable role, a scientific technical conference took place at the Leningradskiy tekhnologicheskiy institut im. Lensoveta (Leningrad Technological Institute imeni Lensovet) in December 1959. The conference was attended by more than 100 specialists from higher educational and scientific institutions, and from plants in Leningrad, Moscow, Gor'kiy, Zaporozh'ye, and Perm'. V.N. Gostev, Candidate of Technical Sciences, reported on Gattsuk's scientific activities. Professor B.D. Yashnov, Doctor of Technical Sciences, B.M. Deshevoy,

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D041/D006

A Conference on Problems of Accuracy in Machine Building

A.K. Kutay, B.P. Berezin, all Candidates of Technical Sciences and R.B. Kholyavskaya and L.M. Sverdlov, Engineers, dealt with Gattsuk and his achievements. V.D. Nesterov, Engineer, from the Komitet standartov, mer i izmeritel'nykh priborov (Committee of Standards, Measures, and Measuring Instruments) spoke on the development of the tolerance and fit system in the post-war years, and its further perfectioning. A.K. Kutay, Candidate of Technical Sciences (Leningrad), elucidated some facts dealing with the rapprochement of the OST and ISO systems in socialist countries. Professor A.A. Zykov, Doctor of Technical Sciences (Gor'kiy), reported on the graphic-analytical method of calculating fits in group assembly. V.N. Gostev, Candidate of Technical Sciences (Leningrad) examined versions of calculation methods for the

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D041/D006

A Conference on Problems of Accuracy in Machine Building

selection of tolerances and fits in design development. S.I. Bruk, Candidate of Technical Sciences (Leningrad), treated the problem of tolerances in curvilinear surfaces. A.S. Smirnov dealt with the problem of using preference numbers formed by geometric progression, to select dimension parameters when designing. M.S. Mirkin, Candidate of Technical Sciences, spoke on kinematic accuracy increase on account of the phase compensation of angle errors. Yu.N. Lyandon, Candidate of Technical Sciences (Moscow), treated problems of tolerance calculation in connection with functional interchangeability. N.B. Firun, Candidate of Technical Sciences, reported on new original method of checking the kinematic accuracy of tooth cutting machines. Ye.M. Dobrynin, Candidate of Technical Sciences, dealt with the problem of certifying the dynamic accuracies of devices. I.N. Taganov gave information on a new automatic installation for the current statistic checking of multi-dimension parts by applying

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D041/D006

A Conference on Problems of Accuracy in Machine Building

the grouping method. B.S. Balakshin (Moscow), Doctor of Technical Sciences, spoke on the utilization of the principles of the dimension chain theory in machine building. V.P. Puzanova, Candidate of Technical Sciences (Leningrad), treated problems of dimension analysis in connection with the determination of dimension chains. I.G. Fridlender, Candidate of Technical Sciences, dealt with methods of calculating tolerances for aeronautical gas turbine vanes, his report being based on the general accuracy theory developed by Academician N.G. Bruyevich. V.D. Zinevich, Candidate of Technical Sciences (Leningrad), reported on some peculiarities in the calculation of the dimension chains of machines produced by the Zavod "Pnevmatika" ("Pnevmatika" Plant). P.N. Goberman (Leningrad), reported on methods of teaching the "Fundamentals of Interchangeability and Technical

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D041/D006

A Conference on Problems of Accuracy in Machine Building

Measurements" at vuzes. Engineer L.B. Bykhovskiy (Perm') reported on investigations carried out for the Committee of Standards, Measures, and Measuring Instruments to obtain data on the shape, dimensions, and tolerances for multiple trapezoidal thread. B.I. Livshits, Candidate of Technical Sciences (Leningrad) spoke on the accuracy of cams milling. Engineer V.A. Braginskiy (Leningrad) reported on investigations concerning accuracy problems in the production of parts made of plastics. On instructions of the Committee of Standards, Measures, and Measuring Instruments, the MVTU imeni Bauman and the LTI imeni Lensovet are studying the matter to provide data for accuracy standards. I.V. Dunin-Barkovskiy (Moscov), and I.A. Mishin (Leningrad), both Candidates of Technical Sciences, discussed separate problems of the microgeometry of machine part surfaces. The conference passed a resolution recommending the establishment of labora-

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A Conference on Problems of Accuracy in Machine Building

tories for the study of accuracy and interchangeability problems at vuzes and large plants, and to introduce in the course of higher mathematics subjects satisfying modern requirements for the study of accuracy (theory of probability, statistical mathematics, theory of accidental functions, etc). The conference asked the Committee of Standards, Measures, and Measuring Instruments to consider the problem of tolerances for length dimensions and tolerances for the wear of the no-go side of rigid gauges. There is 1 diagram.

Card 6/6

GOSTEV, V.N.; BUDKO, Ye.G.

Test and adoption of the receiving statistical control by the method of sequential analysis at the "Metallist" Plant. Trudy LTI no.59:122-132 '61. (MIRA 17:9)

GOSTEV, V.N.; TAGANOV, I.N.; DUKAREVICH, Yu.Ye.

Automatic unit for the statistical control by the group method.
Trudy LTI no.59:133-141 '61. (MIRA 17:9)

L 13086-66 EWT(d)/EWT(m)/EWP(w)/EWA(d)/EWP(v)/T/EWP(t)/EWP(k)/EWP(h)/EWP(z)/EWP(b)/EWP(1)/EWA(c) MJW/JD/HM/HW

ACC NR: AP6000838 SOURCE CODE: UR/0130/65/000/012/0030/0032

AUTHOR: Gostev, V. P.; Okishev, L. V.; Loyferman, M. A.; Zhupina, V. V.

ORG: Izhevsk Metallurgical Plant (Izhevskiy metallurgicheskiy zavod)

TITLE: Arc welding in an atmosphere of purifying gas

SOURCE: Metallurg, no. 12, 1965, 30-32

TOPIC TAGS: arc welding, welding equipment, argon, inert gas welding, rolling mill, metal forming

ABSTRACT: A semiautomatic welding rig designed to eliminate edge trimming waste in rolling mills is described. A block diagram of the rig is shown in fig. 1. The rig was used to weld Kh18N9, Kh18N9T, Kh18N10T stainless steels and alloys of the permalloy class. The ends from 10--15 separate strips were welded into rolls. The thickness of the welded strip ranged from 0.9-3.0 mm. Tabular data are given for various alloys in which recommended welding current ranges, voltage, carriage speed and volumetric flow rates (inert gas) were included. For stainless steels (1.5 mm thickness) the conditions were very similar--current from 100 to 105 amps, 65 volts, 12 to 14 m/min for the carriage

UDC: 621.771.25

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L 13086-66
ACC NR: AP6000838

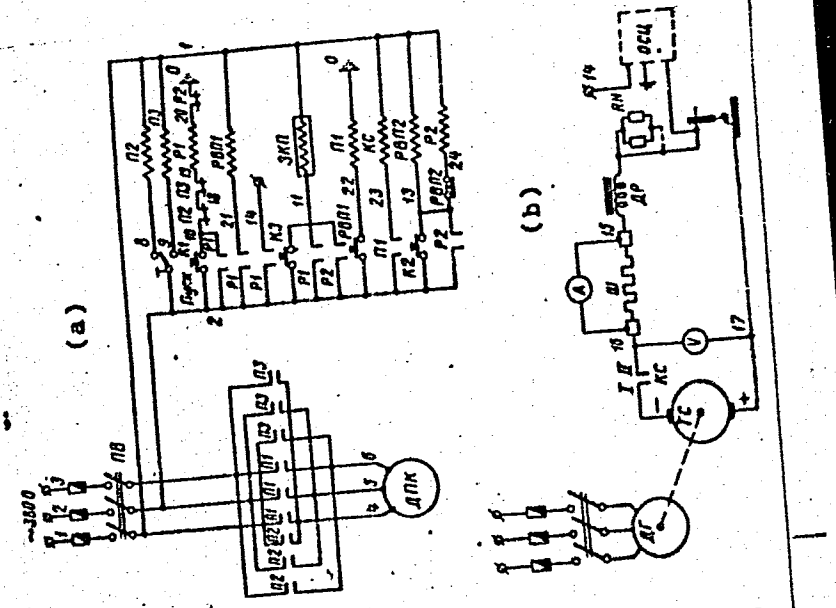

Fig. 1. Welding assembly: a--general view; b--electric diagram of the equipment; V--dc voltmeter; A--dc ammeter; DP--choke coil; DPK--carriage feed mechanism; PR--electric fuse; T--toggle switch; KC-contactor; EPK--electropneumatic valve; Sh--shunt; K3--"test gas" button; K2--"stop" button; K1--"start" button; RBP1 and RBP2--time relays; PB--switch; R1, R2 and R3--intermediate relays.

speed and 9 to 13 l/min for the inert gas flow rate. Argon was used for

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ACC NR: AP6000838

its purifying effect on the base metal and because it promoted arc stability. The mechanical properties of the welded sections compared favorably with the unwelded portions; thus maximum backtension and rolling force could be used in subsequent rolling without breakage. Orig. art. has: 1 figure, 1 table.

SUB CODE: 13,11/ SUBM DATE: 00/ ORIG REF: 000/ OTH REF: 000

Card 3/3

GOSTEV, V.P.; OKISHEV, L.V.; LOYFERMAN, M.A.; ZHUPINA, V.V.

Electric welding in a protective gas atmosphere. Metallurg 10 no.12:30-32 D '65. (MIRA 18:12)

1. Izhevskiy metallurgicheskiy zavod.

MAYSKIY, I.N., glav. red.; TONGUR, V.S., nauchn. red.; BOGOYAVLENSKAYA, N.V., nauchn. red.; VYAZOV, O.Ye., red.; GEORGIYEV, O.Ye., red.; DEBOV, S.S., red.; DOBROKHOTOV, V.N., red.; ZHUKOV-VEREZHNIKOV, N.N., red.; LAGUCHEV, S.S., red.; LIOZNER, L.D., red.; LOMAKIN, M.S., red.; PEKHOV, A.P., red.; TONGUR, V.S., red.; GOSTEV, V.S., red.

[Nucleic acids and nucleoproteins; transactions] Nukleinovye kisloty i nukleoproteidy; trudy. Pod red. I.I Maiskogo, Tongura, V.S i N.V.Bogoiavlenskoi. Moskva, Mosk. biokhim. ob-vo, 1961. 345 p. (MIRA 17:9)

1. Konferentsiya po nukleinovym kislotam i nukleoproteidam. 1st, Moscow, 1959. 2. Institut eksperimental'noy biologii AMN (for Tongur, ostev). 3. Pervyy Meditsinskiy institut imeni I.M.Sechenova, Moskva (for Debov).

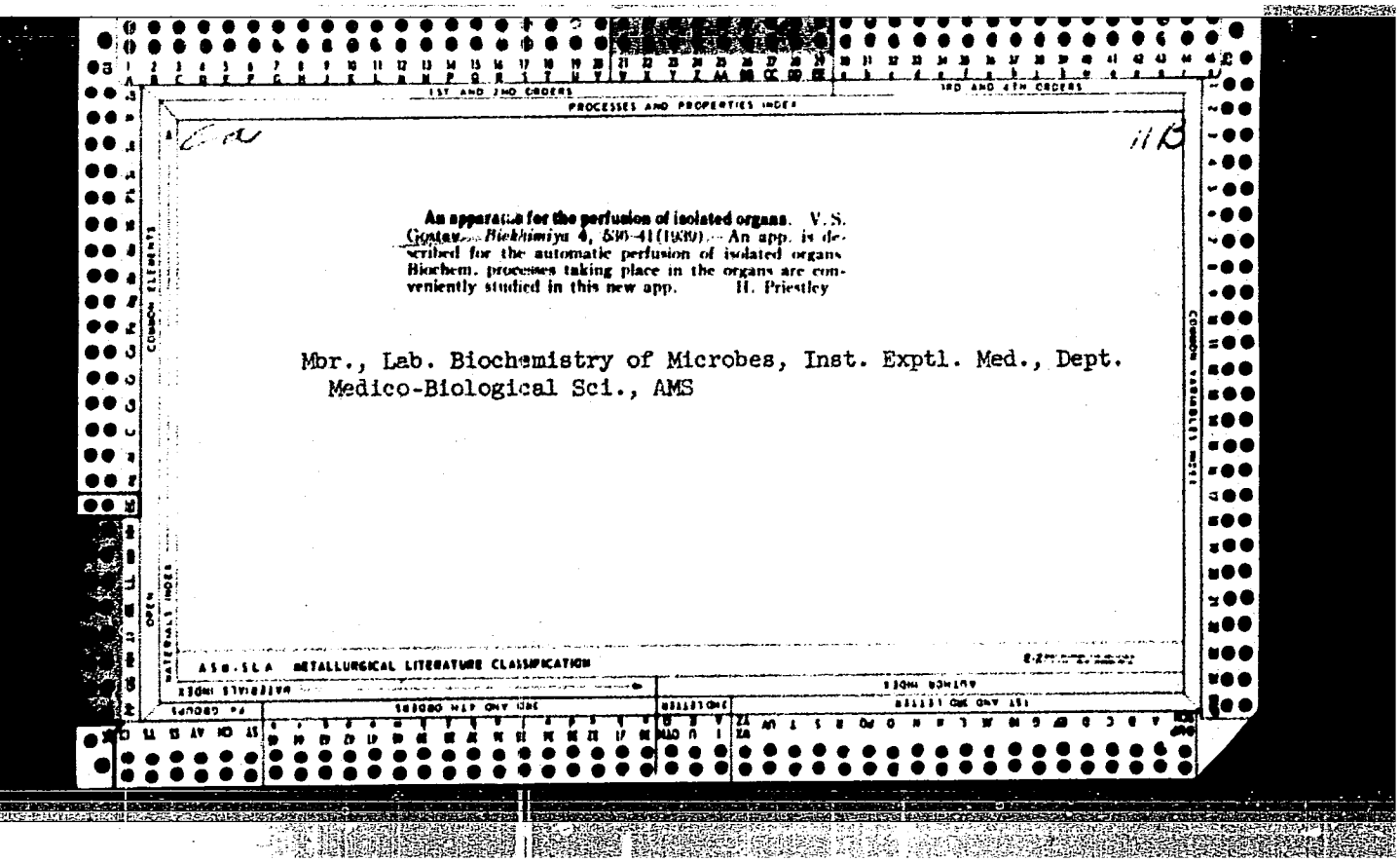
GOSTEV, V.S. (Moskva, D-284, Begovaya u.., 11, kv. 37); AZLETSKAYA, A.Ye.; SAAKOV, A.K.; GRIGOR'YAN, D.G.; CHAMOVA, K.G.; ZYKOV, Yu.V.; PERELAZNYY, A.A.; MAZINA, N.M.; KULAGIN, N.A.; MAKOVEYEVA, G.M.

Study of the antigenic properties of human tumors fractions deprived of soluble proteins. Vop. onk. 8 no.9:18-26 '62. (MIRA 17:6)

1. Iz laboratorii immunokhimii Instituta eksperimental'noy biologii AMN SSSR (dir.- prof. I.N. Mayskiy).

GOSTEV, V.S. (Moskva)

Immunochemical problems of general immunobiology. Usp. sovr. biol. 58 no. 2:242-252 S-O '64. (MIRA 17:12)

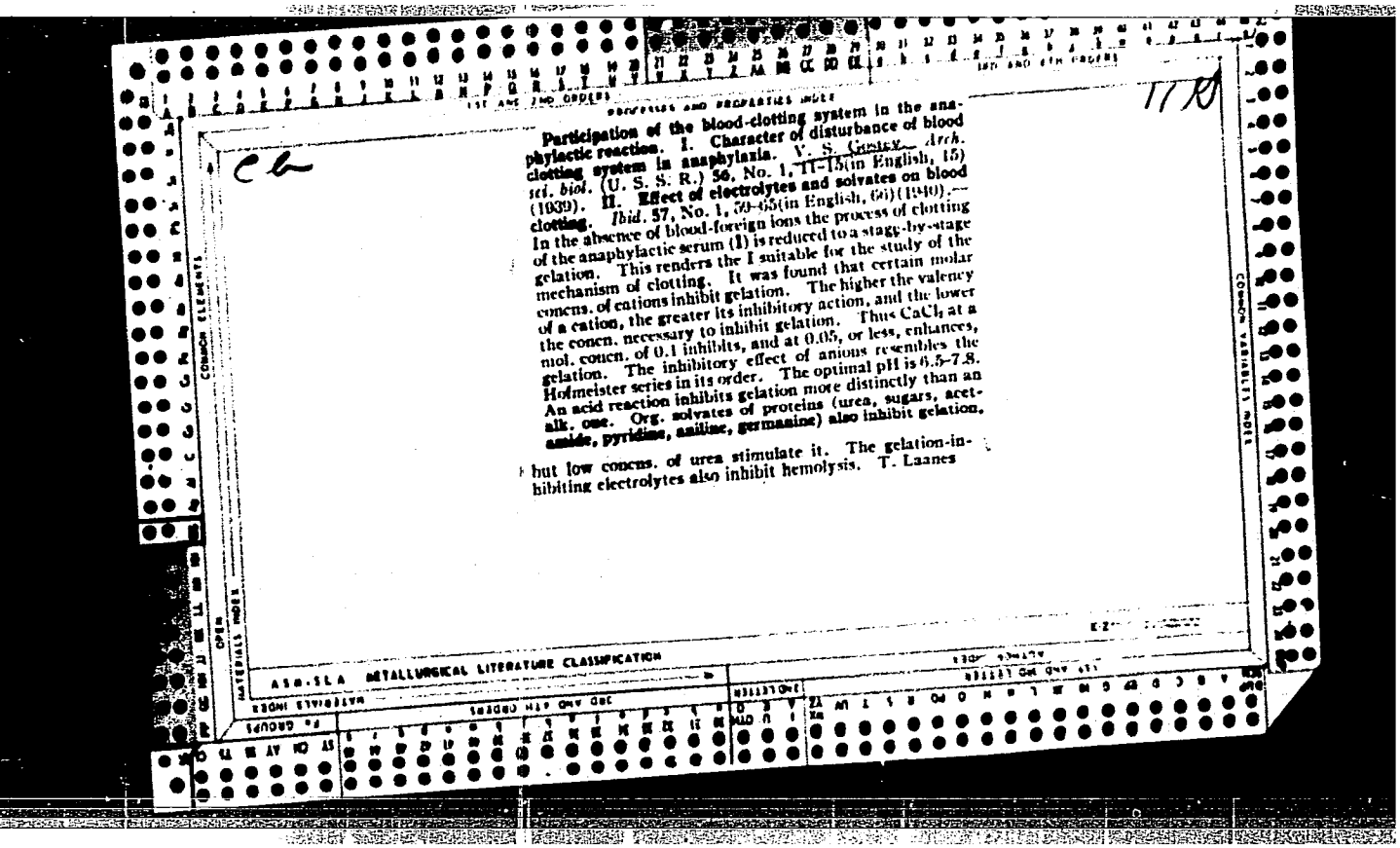


PROCESSES AND PROPERTIES INDEX

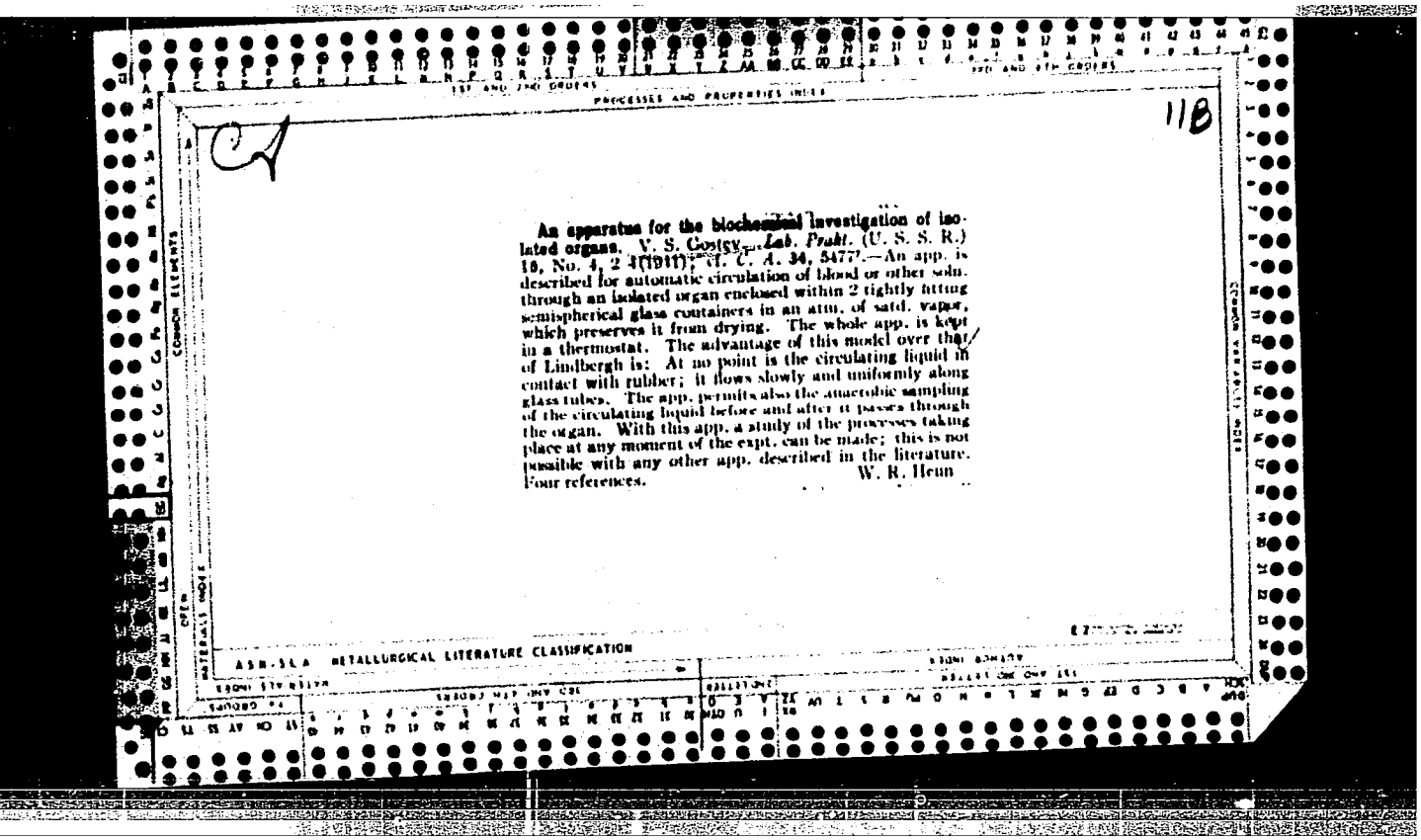
An apparatus for the perfusion of isolated organs. V. S. Gontar. *Biokhimiya* 4, 830–41 (1939).—An app. is described for the automatic perfusion of isolated organs. Biochem. processes taking place in the organs are conveniently studied in this new app. H. Priestley

Mbr., Lab. Biochemistry of Microbes, Inst. Exptl. Med., Dept. Medico-Biological Sci., AMS

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION



Participation of the blood-clotting system in the anaphylactic reaction. I. Character of disturbance of blood clotting system in anaphylaxia. V. S. Gurevich. *Arch. sci. biol.* (U. S. S. R.) **56**, No. 1, 11–15 (in English, 15) (1939). **II. Effect of electrolytes and solvates on blood clotting.** *Ibid.* **57**, No. 1, 59–65 (in English, 60) (1940).—In the absence of blood-foreign ions the process of clotting of the anaphylactic serum (I) is reduced to a stage-by-stage gelation. This renders the I suitable for the study of the mechanism of clotting. It was found that certain molar concns. of cations inhibit gelation. The higher the valency of a cation, the greater its inhibitory action, and the lower the concn. necessary to inhibit gelation. Thus $CaCl_2$ at a mol. concn. of 0.1 inhibits, and at 0.05, or less, enhances, gelation. The inhibitory effect of anions resembles the Hofmeister series in its order. The optimal pH is 6.5–7.8. An acid reaction inhibits gelation more distinctly than an alk. one. Org. solvates of proteins (urea, sugars, acetamide, pyridine, aniline, germanine) also inhibit gelation, but low concns. of urea stimulate it. The gelation-inhibiting electrolytes also inhibit hemolysis. T. Laanes



An apparatus for the biochemical investigation of isolated organs. V. S. Gostev. *Lab. Prakt.* (U. S. S. R.) 18, No. 4, 2 4(1911); *C. C. A.* 34, 5477.—An app. is described for automatic circulation of blood or other soln. through an isolated organ enclosed within 2 tightly fitting semispherical glass containers in an atm. of satd. vapor, which preserves it from drying. The whole app. is kept in a thermostat. The advantage of this model over that of Lindbergh is: At no point is the circulating liquid in contact with rubber; it flows slowly and uniformly along glass tubes. The app. permits also the anaerobic sampling of the circulating liquid before and after it passes through the organ. With this app. a study of the processes taking place at any moment of the expt. can be made; this is not possible with any other app. described in the literature.
Four references. W. R. Heun

GOSTEV, V. S., Physician

"Investigation of the Chemical Nature of Antigen and Antibodies by the Method of Azo Compounds." Thesis for degree of Dr. Medical Sci. Sub 26 Sep 49, Second Moscow State Medical Inst imeni I. V. Stalin.

Summary 82, 18 Dec 52, Dissertations Presented for Degrees in Science and Engineering in Moscow in 1949. From Vechernyaya Moskva, Jan-Dec 1949.

GOSTEV, V.S.

Gostev, V. S. [illegible] meditsinskoi mikrobiologii [illegible] Medical Bacteriology. Moscow: Izdatel'stvo [illegible] Med. Nauk S.S.S.R. 1951. 164 pp. 11 R. 50 K. Reviewed in *Zhur. Mikrobiol. Epidemiol. i Immunobiol.* 1954, No. 2, 73-5.

USSR/Medicine - Cancer, Immunology Nov 51

"In the Fight Against Cancer," V. S. Gostev, Dr Med Sci

"Nauka i Zhizn'" Vol XVIII, No 11, pp 33-36

Describes N. P. Petrov's transplantation of human cancer to monkey, Ye. Smirnova's successful graft of human cancer into eye of guinea pig. Inter-species grafts of this type can be carried out in any part of the body when resistance of animal has been weakened (X-ray irradiation of spleen), but only in frontal chamber of eye, brain, and other specific parts of the organism which lack defense mechanisms. In immunological expts on animals, Professors B. I. Zbarskiy and L. A. Zil'ber differentiated between antibodies produced by cancer from those produced by human proteins. On immunizing animals against human proteins, Zil'ber produced in them a specific shock due to human cancer tissue. A. K. Saakov developed a rabbit serum which can be used for diagnosing human cancer. Cancer antibodies alone do not prevent multiplication of cancer cells; the protective forces of the whole organism must come into play. Under the right conditions, blood serum of healthy humans and animals is capable of dissolving cancer cells. Presence of malignant tumor prevents this. V. G. Gordeyev's method of curing cancer by irritating surrounding tissue is similar to K. P. Ulezko-Stroganov's method (1909) of treating cancer by infecting the patient with erysipelas. I. N. Mayskiy and N. A. Troitskiy proved that malignant tumors have a so-called propagation factor, a property which they share with pathogenic bacteria. Functional condition of the nervous system is of importance in cancer: Prof M. K. Petrova produced cancer experimentally by overloading the nervous system of dogs. Very effective methods of treating cancer will presumably be developed when the role of the central nervous system has been properly investigated.

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GOSTEV, V. S., Dr Med Sci

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Tissue hemolysins, the macrocytase of Mechnikov-Tarasevich. V. S. Gostev and M. N. Petryashina (Acad. Med. Sci., Moscow). *Biokhimiya* 17, 29-38(1952).—According to Mechnikov (cf. *Ann. inst. Pasteur* 13, 737-69 (1899)) bacteria are digested by microphages and animal tissue by macrophages. Exts. of organs of man and animals were tested for their ability to dissolve erythrocytes by incubating, at 37° for 30 min., a mixt. of 0.5 ml. ext., 1.0 ml. 2% sheep erythrocytes, and 1.0 ml. 0.85% NaCl soln. The effects were noted after the 30-min. incubation period and after remaining overnight in the refrigerator. Exts. of the alimentary tract of man produced lysis in sheep erythrocytes. Liver exts. lacked hemolytic properties. Stomach exts. were hemolyzed at neutral reaction so that pepsin could not have been the hemolytic agent. The erythrocytes of man (all blood groups) were also subject to lysis in the presence of stomach exts. The active substance in the stomach ext. which dissolved the erythrocytes was of high mol. wt., did not dialyze, and was pptd. by 33% satd. $(NH_4)_2SO_4$. The active material was therefore closely related to γ-globulin. The hemolytic property was not appreciably affected by heating the ext. for 30 min. at 55°. Some loss of hemolysis was obtained at 70° and complete loss at 80°. The addn. of fresh guinea-pig serum or the serums of various animals inhibited hemolysis. Heating of the serum at 55° for 30 min. decreased the capacity of the serum to inhibit the hemolysis by tissue exts. The liver exts. were inactive because the presence of a protein acted as an inhibitor. After hydrolysis of the protein in the liver exts. by protease, hemolysis took place. Exts. from the lungs, kidney, and brain were inactive; they became active only after treatment with trypsin. When the inactive organs were stored in the refrigerator for [illegible] days, or at 37° for 24 hrs., hemolytic activity appeared without proteolysis by trypsin. A concd. hemolysin prepn. was obtained by dissolving in 0.85% NaCl soln. the globulin fraction which had been salted out with 33% satd. $(NH_4)_2SO_4$, neutralizing with NaOH, adding trypsin, and pptg. the protein with an equal vol. of 10% soln. of sulfosalicylic acid. The ppt. was dissolved in NaOH soln. and brought to pH 7.2. An amt. of this soln. equiv. to 0.[illegible] mg. total N dissolved completely 2 ml. of 2% sheep erythrocytes in 30 min. at 37°. The tissue hemolysins were easily adsorbed especially on activated C. H. Priestley

Lab. of Immunity Chemistry, Inst. Exptl. Biol., Acad. Med. Sci. USSR

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